

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A handheld device for taking an image of an object comprising:

a camera module capable of focusing on and generating an electronic image signal corresponding to an image of the object;

a motion sensor for sensing movement of said camera module and for generating a movement signal indicative of the movement of said camera module; ~~and~~

a transmitting means for transmitting the electronic image signal and the movement signal to a processing engine; and

a processing engine receiving the electronic image signal and the movement signal from the transmitting means, and for processing the electronic image signal in response to the movement signal to correct the image signal for movement of said camera module, for combining a plurality of corrected image signals into an electronic image output signal corresponding to a single image of the object, and for processing the electronic image signal to correct the brightness of an image produced by the electronic image signal by comparing the brightness of the produced image to a predefined or stored desired brightness standard.

2. (canceled)

3. (original) The handheld device of claim 1, wherein said motion sensor is capable of detecting movement of said camera module in at least two dimensions.

4. (original) The handheld device of claim 3, wherein said motion sensor is capable of detecting movement of said camera module in three dimensions.

5. (original) The handheld device of claim 4, wherein said motion sensor comprises an accelerometer.

6. (original) The handheld device of claim 4, wherein said motion sensor comprises a gyroscope.

7. (currently amended) The handheld device of claim ~~2~~ 1, wherein said motion sensor is capable of detecting movement of said camera module in three dimensions.

8. (currently amended) The handheld device of claim ~~2~~ 1, further comprising a memory for storing a plurality of electronic image signals corresponding to a plurality of images of the object.

9. (currently amended) The handheld device of claim ~~2~~ 1, wherein said processing engine is capable of combining a plurality of corrected image signals corresponding to a plurality of images taken of different portions of the object.

10. (currently amended) A The handheld device of claim ~~2~~, for taking an image of an object comprising:

a camera module capable of focusing on and generating an electronic image signal corresponding to an image of the object;

a motion sensor for sensing movement of said camera module and for generating a movement signal indicative of the movement of said camera module;

a transmitting means for transmitting the electronic image signal and the movement signal to a processing engine; and

a ~~wherein said~~ processing engine is capable of combining a plurality of corrected image signals corresponding to a plurality of substantially identical images taken of the object to result in a signal ~~capable of producing~~ that produces an image of the object having a higher quality than any of the single images.

11. (currently amended) The handheld device of claim ~~2~~ 1, wherein said handheld device is a mobile phone.

12. (original) The handheld device of claim 1 in combination with a processing engine located remotely from the handheld device, said processing engine receiving the electronic image signal and the movement signal from the transmitting means, and for processing the electronic image signal in response to the movement signal to correct the image signal for movement of said camera module, and for combining a plurality of corrected image signals into an electronic image output signal corresponding to a single image of the object.

13. (original) The handheld device of claim 12, wherein said handheld device is a mobile phone.

14. (currently amended) A method for obtaining an image of an object with a handheld device containing a camera module and a motion sensor, said method comprising:

taking a plurality of images of the object with the camera module to generate an electronic image signal corresponding to each of the plurality of images taken;

storing the plurality of electronic image signals;

sensing movement of the camera module between the taking with the camera module of the plurality of images of the object;

generating a plurality of movement signals which are indicative of sensed movement of the camera module;

processing each of the plurality of electronic image signals in response to the movement signals to correct for movement of the camera module to generate a plurality of corrected electronic image signals;

processing each of the plurality of electronic image signals to correct the brightness of the images produced by the electronic image signals by comparing the brightness of the produced images to a predefined or stored desired brightness standard; and

combining the plurality of corrected electronic image signals into an electronic output signal corresponding to a single image of the object.

15. (original) The method of claim 14, wherein movement of the camera module in at least two dimensions is sensed.

16. (original) The method of claim 15, wherein movement of the camera module in three dimensions is sensed.

17. (original) The method of claim 14, wherein storing the plurality of electronic image signals, processing each of the plurality of electronic image signals, and combining the plurality of corrected electronic image signals is performed by the handheld device.

18. (original) The method of claim 17, wherein the handheld device is a mobile phone.

19. (original) The method of claim 14, wherein storing the plurality of electronic image signals, processing each of the plurality of electronic image signals, and combining the plurality of corrected electronic image signals is performed by a processor remote from the handheld device.

20. (currently amended) The method of claim 14, wherein in said ~~combining~~ combining step, a plurality of corrected image signals corresponding to a plurality of images taken of different portions of the object are combined.

21. (currently amended) ~~A~~ The method of claim 14, for obtaining an image of an object with a handheld device containing a camera module and a motion sensor, said method comprising:

taking a plurality of images of the object with the camera module to generate an electronic image signal corresponding to each of the plurality of images taken;

storing the plurality of electronic image signals;

sensing movement of the camera module between the taking with the camera module of the plurality of images of the object;

generating a plurality of movement signals which are indicative of sensed movement of the camera module;

processing each of the plurality of electronic image signals in response to the movement signals to correct for movement of the camera module to generate a plurality of corrected electronic image signals; and

~~wherein in said combining step,~~ combining a plurality of corrected image signals corresponding to a plurality of substantially identical images taken of the object ~~are combined~~ to result in a signal ~~capable of producing~~ that produces an image of the object having a higher quality than any of the single images.

22. (original) The method of claim 14, further comprising displaying on a display of the handheld device an image in response to the electronic image output signal.

23. (original) The method of claim 14, further comprising transmitting the electronic image output signal to a display remote from the handheld device and displaying on the display an image in response to the electronic image output signal.

24. (new) The method of claim 21, wherein said step of taking a plurality of images comprises repeatedly taking a predetermined number of substantially identical images when the brightness is below a brightness threshold.

25. (new) The method of claim 24, wherein the predetermined number of images is a sufficient number of images to produce a reconstructed image above the brightness threshold.

26. (new) The method of claims 24, wherein the handheld device is a mobile phone.

27. (new) The handheld device of claim 10, wherein said camera module includes a processing engine programmed such that a predetermined number of substantially identical images are taken when the brightness is below a brightness threshold.

28. (new) The handheld device of claim 27, wherein the predetermined number of images is a sufficient number of images to produce a reconstructed image above the brightness threshold.

29. (new) The handheld device of claim 10, wherein said handheld device is a mobile phone.